

=> FILE REG

FILE 'REGISTRY' ENTERED AT 12:55:47 ON 21 AUG 2008
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=> D HIS

FILE 'LREGISTRY' ENTERED AT 12:47:17 ON 21 AUG 2008
 E TRIPHENYLMETHANE/CN

L1 1 S E3
 L2 STR 519-73-3

FILE 'REGISTRY' ENTERED AT 12:48:43 ON 21 AUG 2008

L3 SCR 2043
 L4 3 S L2 AND L3
 L5 STR L2
 L6 1 S L5 AND L3
 L7 80 S L5 AND L3 FUL
 SAV L7 GAR389/A

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L8 0 S L7

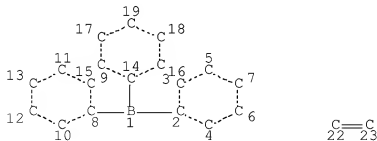
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L9 42 S L7
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=> D L7 QUE STAT

L3 SCR 2043
 L5 STR



NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1
DEFAULT MLEVEL IS ATOM
DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

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100.0% PROCESSED 1078 ITERATIONS

80 ANSWERS

SEARCH TIME: 00.00.01

=> FILE ZCA

FILE 'ZCA' ENTERED AT 12:56:02 ON 21 AUG 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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=> D L10 1-2 ALL HITSTR

L10 ANSWER 1 OF 2 ZCA COPYRIGHT 2008 ACS on STN

AN 143:98162 ZCA Full-text

ED Entered STN: 28 Jul 2005

TI Boron-containing polymer compound and organic light emitting device
using the same

IN Kato, Tsuyoshi; Kondo, Kunio

PA Showa Denko K.K., Japan

SO PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C08F030-06

ICS C08F230-06; C08F008-00; H01L051-30

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 73

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2005061562 A1 20050707 WO 2004-JP18859 200412
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KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
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VN, YU, ZA, ZM, ZW
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US 2003-532919P P 20031230 <--
WO 2004-JP18859 W 20041210 <--
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

WO 2005061562 ICM C08F030-06
ICS C08F230-06; C08F008-00; H01L051-30

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	IPCR	C08F0008-00 [I,C*]; C08F0008-00 [I,A]; C08F0008-42 [I,A]; C08F0030-00 [I,C*]; C08F0030-06 [I,A]; C08F0230-00 [I,C*]; C08F0230-06 [I,A]; H01L0051-05 [I,C*]; H01L0051-30 [I,A]; H01L0051-50 [N,C*]; H01L0051-50 [N,A]
	ECLA	H01L051/00M12D; C08F008/42; C08F030/06; H01L051/00M2D; H01L051/00M12F2; T01L; T01L; T01L; T01L
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	NCL	526/239.000; 252/301.160; 252/301.350; 257/040.000; 257/E51.033; 257/E51.036; 257/E51.044; 313/504.000; 428/690.000; 428/917.000; 526/241.000
KR 2007001090	IPCI	C08F0030-06 [I,A]; C08F0030-00 [I,C*]; C08F0230-06 [I,A]; C08F0230-00 [I,C*]; C08F0008-42 [I,A]; C08F0008-00 [I,C*]; H01L0051-30 [I,A]; H01L0051-05 [I,C*]

AB The present invention provides a polymer material showing high luminous efficiency at a low voltage and suitable for increasing the

emission area and for the mass prodn., and an org. light emitting device using the same. The present invention relates to a polymer compd. comprising a boron-contg. monomer unit represented by [CR16(XA)CH2]: where A represents a tri-Ph boron group in which the Ph group may be substituted, R16 represents a hydrogen atom or an alkyl group having 1 to 12 carbon atoms, X represents a single bond, -O-, -S-, -SO-, -SO2- or a divalent hydrocarbon group having 1 to 20 carbon atoms which may have a hetero atom, a light-emitting polymer compd. comprising the boron-contg. monomer unit and a light-emitting monomer unit, a light-emitting compn. comprising the boron-contg. monomer unit and a light-emitting low-mol. compd. or light-emitting polymer compd., and org. light-emitting device using the light-emitting polymer compd. or the light-emitting compn.

ST boron polymer org light emitting device

IT Electroluminescent devices

Phosphorescent substances

(boron-contg. polymer compd. and org. light emitting device using the same)

IT 6267-34-1P, 4-Bromo-3,5-dimethylanisole 18120-63-3P 105465-14-3P
 149228-92-2P 162247-15-6P 856695-21-1P 856695-22-2P
 856695-23-3P 856695-24-4P 856695-25-5P 856695-26-6P
 856695-27-7P 856695-28-8P 856695-29-9P 856695-30-2P
 856695-31-3P 856695-32-4P 856695-33-5P 856695-34-6P
 856695-35-7P 856695-36-8P 856695-37-9P 856695-38-0P
 856695-39-1P 856695-40-4P

(boron-contg. polymer compd. and org. light emitting device using the same)

IT 856695-41-5P 856695-42-6P 856695-43-7P
 856695-44-8P 856695-45-9P 856695-46-0P
 856695-47-1P 856695-48-2P 856695-49-3P
 856695-50-6P 856695-51-7P 856695-52-8P
 856695-53-9P 856695-55-1P 856695-56-2P
 856695-58-4P 856695-59-5P 856695-60-8P
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(boron-contg. polymer compd. and org. light emitting device using the same)

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 109-63-7, Borontrifluoride ether complex 119-93-7 436-59-9,
 Dimesitylboronfluoride 625-95-6, 3-Iodotoluene 1493-13-6,
 Trifluoromethanesulfonic acid 2156-04-9 5122-94-1 7463-51-6,
 4-Bromo-3,5-dimethylphenol 7486-35-3, Tributyl vinyl tin
 18162-48-6, tert-Butyldimethylchlorosilane 37181-39-8,
 Trifluoromethane sulfonate

(boron-contg. polymer compd. and org. light emitting device using

the same)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Anon; PATENT ABSTRACTS OF JAPAN 2001, V2000(13)
- (2) Anon; PATENT ABSTRACTS OF JAPAN 2003, V2003(08)
- (3) Chisso Corporation; EP 1142895 A 2001 ZCA
- (4) Covion Organic Semiconductors Gmbh; EP 1217668 A 2002 ZCA
- (5) Hokko Chem Ind Co Ltd; JP 2000297118 A 2000 ZCA
- (6) Showa Denko Kk; JP 2003113246 A 2003 ZCA

IT 856695-41-5P 856695-42-6P 856695-43-7P
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856695-47-1P 856695-48-2P 856695-49-3P
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(boron-contg. polymer compd. and org. light emitting device using
the same)

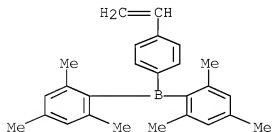
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CN Borane, (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)-, homopolymer
(9CI) (CA INDEX NAME)

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CRN 856695-21-1

CMF C26 H29 B



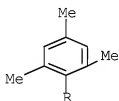
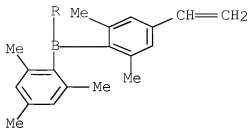
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CN Borane, (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)-,
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CRN 856695-22-2

CMF C28 H33 B



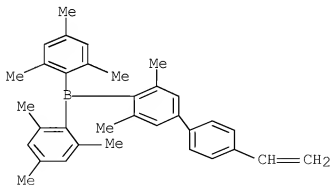
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CN Borane, (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)-, homopolymer (9CI) (CA INDEX NAME)

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CRN 856695-27-7

CMF C34 H37 B



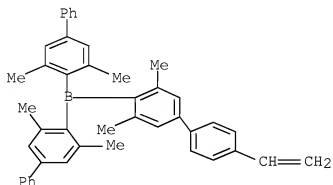
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CN Borane, bis(3,5-dimethyl[1,1'-biphenyl]-4-yl) (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-, homopolymer (9CI) (CA INDEX NAME)

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CRN 856695-28-8

CMF C44 H41 B



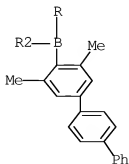
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CN Borane, bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl) (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)-, homopolymer (CA INDEX NAME)

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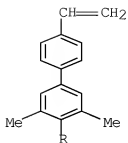
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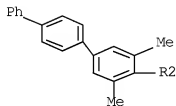


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PAGE 2-A



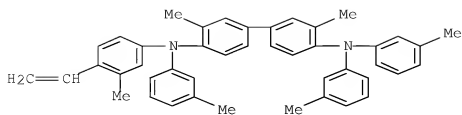
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-
dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with
(4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX
NAME)

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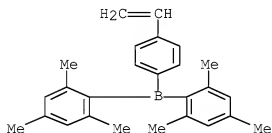
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CM 2

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CMF C26 H29 B



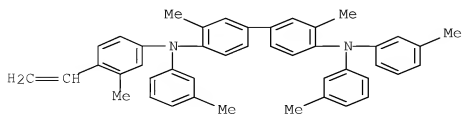
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI)
(CA INDEX NAME)

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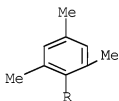
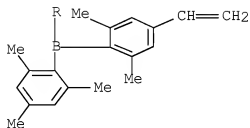
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CMF C28 H33 B



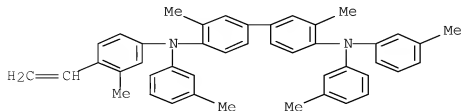
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

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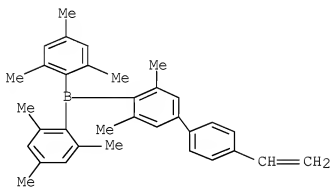
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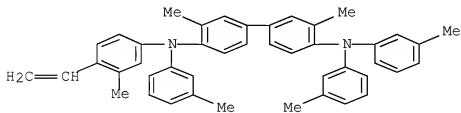
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl) (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (CA INDEX NAME)

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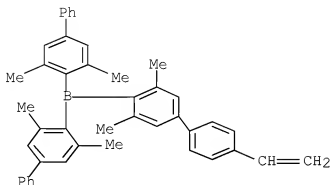
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CMF C44 H41 B



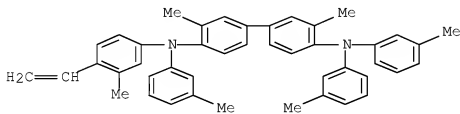
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CN [1,1'-Biphenyl]-4,4'-diamine, N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

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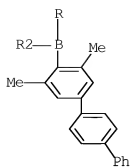


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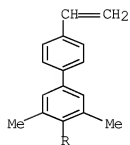
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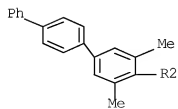
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PAGE 3-A



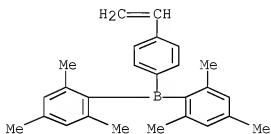
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 CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 $\kappa\text{O}, \kappa\text{O}'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,

polymer with (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI)
(CA INDEX NAME)

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CRN 856695-21-1

CMF C26 H29 B

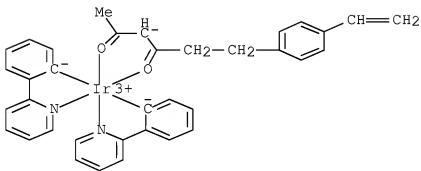


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CRN 481694-72-8

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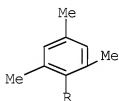
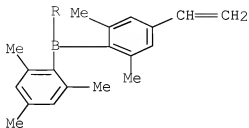
RN 856695-52-8 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato- $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,
polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-22-2

CMF C28 H33 B

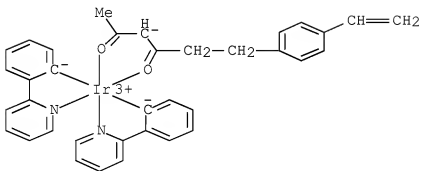


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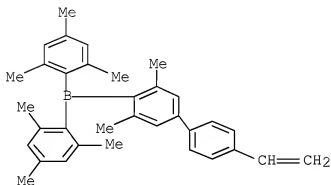
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trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-27-7

CMF C34 H37 B

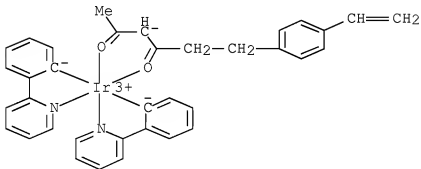


CM 2

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



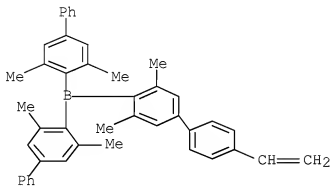
RN 856695-55-1 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato- $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl) (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-28-8

CMF C44 H41 B

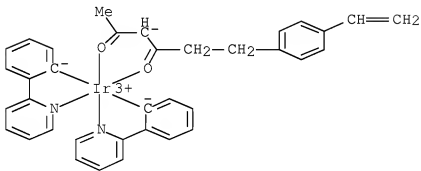


CM 2

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



RN 856695-56-2 ZCA

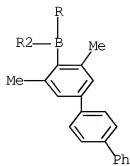
CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
κO,κO']bis[2-(2-pyridinyl-κN)phenyl-κC]-,
polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-
ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX
NAME)

CM 1

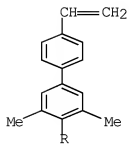
CRN 856695-35-7

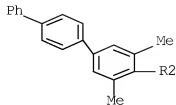
CMF C56 H49 B

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PAGE 2-A



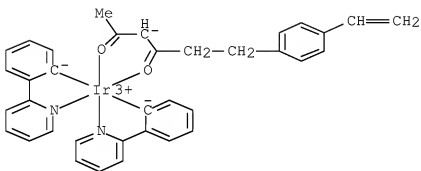


CM 2

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



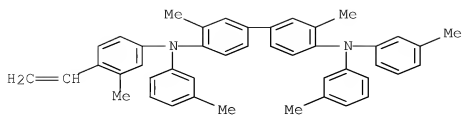
RN 856695-58-4 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato- $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-, polymer with N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine and (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

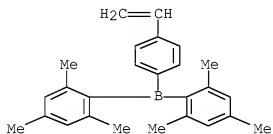
CMF C44 H42 N2



CM 2

CRN 856695-21-1

CMF C26 H29 B

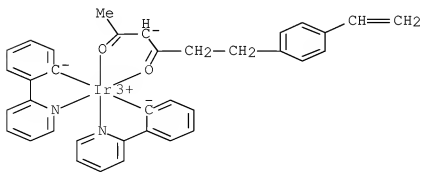


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS

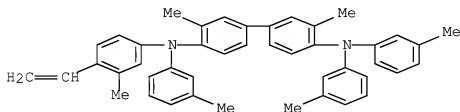


RN 856695-59-5 ZCA
 CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,
 polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-
 trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-
 dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine
 (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

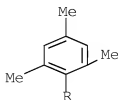
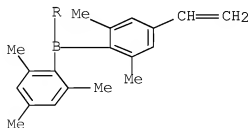
CMF C44 H42 N2



CM 2

CRN 856695-22-2

CMF C28 H33 B

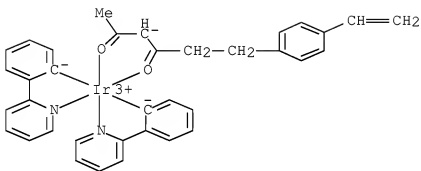


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



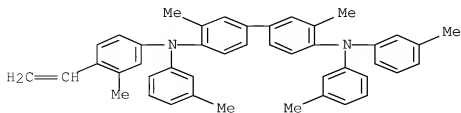
RN 856695-60-8 ZCA

CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato- $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

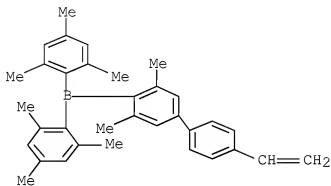
CMF C44 H42 N2



CM 2

CRN 856695-27-7

CMF C34 H37 B

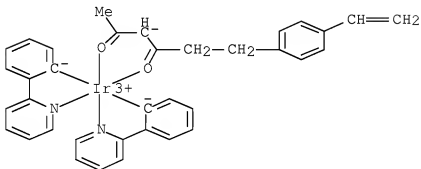


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS



RN 856695-61-9 ZCA

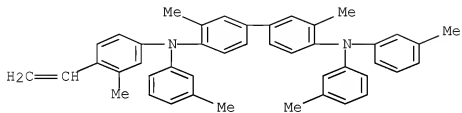
CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato- $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl) (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-

diamine (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

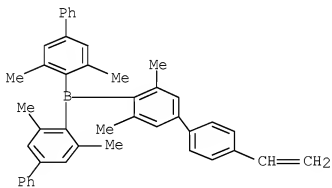
CMF C44 H42 N2



CM 2

CRN 856695-28-8

CMF C44 H41 B

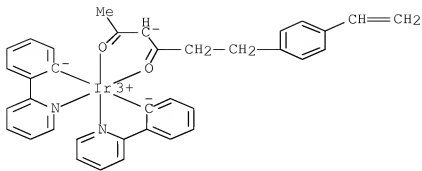


CM 3

CRN 481694-72-8

CMF C36 H31 Ir N2 O2

CCI CCS

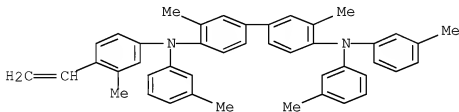


RN 856695-62-0 ZCA
 CN Iridium, [6-(4-ethenylphenyl)-2,4-hexanedionato-
 $\kappa O, \kappa O'$]bis[2-(2-pyridinyl- κN)phenyl- κC]-,
 polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl) (4'-
 ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and
 3,3'-dimethyl-N-(4-ethenyl-3-methylphenyl)-N,N',N'-tris(3-
 methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 856695-39-1

CMF C44 H42 N2

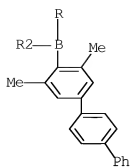


CM 2

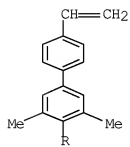
CRN 856695-35-7

CMF C56 H49 B

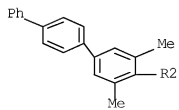
PAGE 1-A



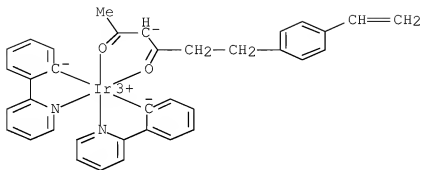
PAGE 2-A



PAGE 3-A



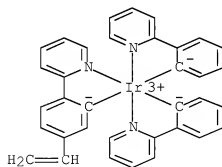
CRN 481694-72-8
 CMF C36 H31 Ir N2 O2
 CCI CCS



RN 857061-54-2 ZCA
 CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

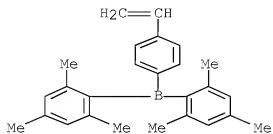
CRN 857061-53-1
 CMF C35 H26 Ir N3
 CCI CCS



CM 2

CRN 856695-21-1

CMF C26 H29 B



RN 857061-55-3 ZCA

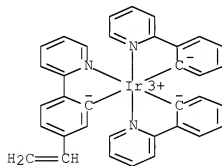
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI)
(CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

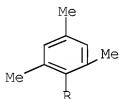
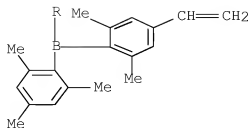
CCI CCS



CM 2

CRN 856695-22-2

CMF C28 H33 B



RN 857061-56-4 ZCA

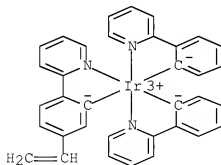
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

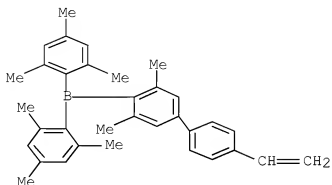
CCI CCS



CM 2

CRN 856695-27-7

CMF C34 H37 B



RN 857061-57-5 ZCA

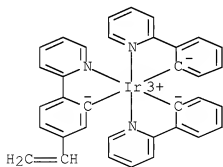
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

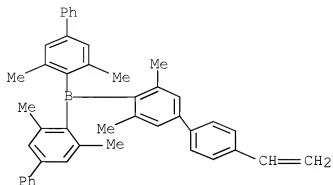
CCI CCS



CM 2

CRN 856695-28-8

CMF C44 H41 B



RN 857061-58-6 ZCA

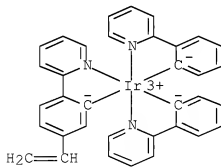
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

CCI CCS

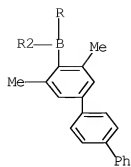


CM 2

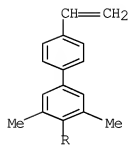
CRN 856695-35-7

CMF C56 H49 B

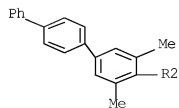
PAGE 1-A



PAGE 2-A



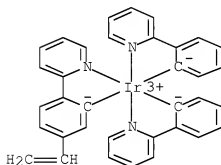
PAGE 3-A



CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine and (4-ethenylphenyl)bis(2,4,6-trimethylphenyl)borane (9CI) (CA INDEX NAME)

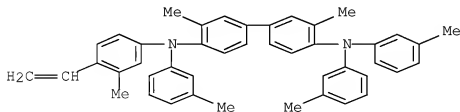
CM 1

CRN 857061-53-1
CMF C35 H26 Ir N3
CCI CCS



CM 2

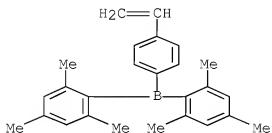
CRN 856695-39-1
CMF C44 H42 N2



CM 3

CRN 856695-21-1

CMF C26 H29 B



RN 857061-60-0 ZCA

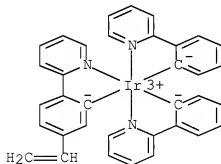
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4-ethenyl-2,6-dimethylphenyl)bis(2,4,6-trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

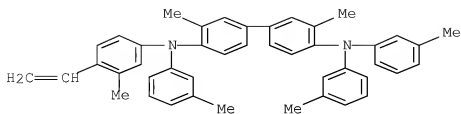
CCI CCS



CM 2

CRN 856695-39-1

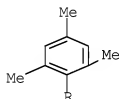
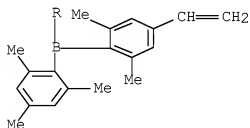
CMF C44 H42 N2



CM 3

CRN 856695-22-2

CMF C28 H33 B



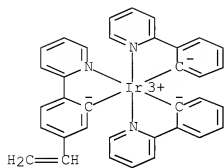
RN 857061-61-1 ZCA

CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)bis(2,4,6-trimethylphenyl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

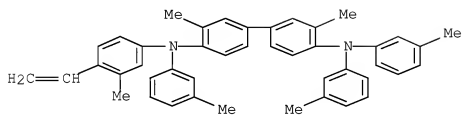
CRN 857061-53-1

CMF C35 H26 Ir N3
 CCI CCS



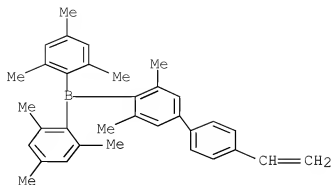
CM 2

CRN 856695-39-1
 CMF C44 H42 N2



CM 3

CRN 856695-27-7
 CMF C34 H37 B



RN 857061-62-2 ZCA

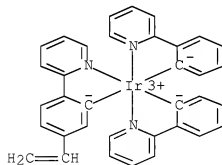
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with bis(3,5-dimethyl[1,1'-biphenyl]-4-yl) (4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and N4-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N4,N4',N4'-tris(3-methylphenyl) [1,1'-biphenyl]-4,4'-diamine (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

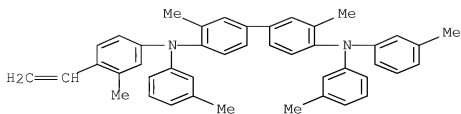
CCI CCS



CM 2

CRN 856695-39-1

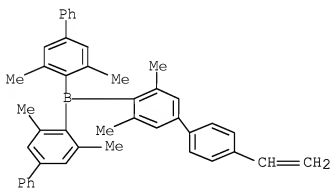
CMF C44 H42 N2



CM 3

CRN 856695-28-8

CMF C44 H41 B



RN 857061-63-3 ZCA

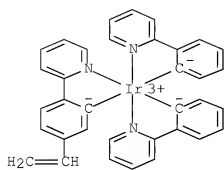
CN Iridium, [5-ethenyl-2-(2-pyridinyl-κN)phenyl-κC]bis[2-(2-pyridinyl-κN)phenyl-κC]-, polymer with bis(3,5-dimethyl[1,1':4',1''-terphenyl]-4-yl)(4'-ethenyl-3,5-dimethyl[1,1'-biphenyl]-4-yl)borane and N-(4-ethenyl-3-methylphenyl)-3,3'-dimethyl-N,N',N'-tris(3-methylphenyl)[1,1'-biphenyl]-4,4'-diamine (9CI) (CA INDEX NAME)

CM 1

CRN 857061-53-1

CMF C35 H26 Ir N3

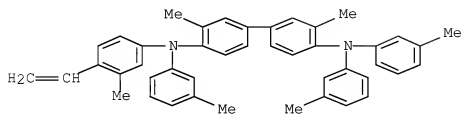
CCI CCS



CM 2

CRN 856695-39-1

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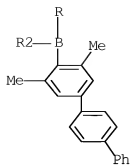


CM 3

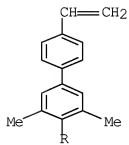
CRN 856695-35-7

CMF C56 H49 B

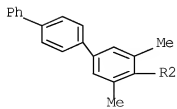
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ED Entered STN: 29 Jul 2004
 TI Organic electroluminescent device for displays and illumination
 source and its production method
 IN Kita, Hiroshi; Yamada, Taketoshi; Suzurizato, Yoshiyuki; Ueda,
 Noriko
 PA Konica Minolta Holdings Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 65 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM H05B033-14
 ICS C08F212-00; C08F220-34; C08F226-12; C08F293-00; C08G081-00;
 C08G085-00; C09K011-06; H05B033-10
 CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related
 Properties)
 Section cross-reference(s): 37, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004185967	A	20040702	JP 2002-351157	200212 03

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PRAI JP 2002-351157 20021203 <--

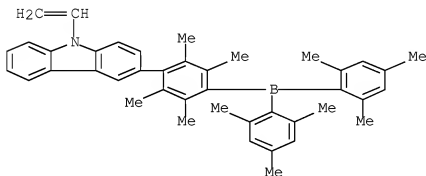
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 2004185967	ICM	H05B033-14
	ICS	C08F212-00; C08F220-34; C08F226-12; C08F293-00; C08G081-00; C08G085-00; C09K011-06; H05B033-10
	IPCI	H05B0033-14 [ICM,7]; C08F0212-00 [ICS,7]; C08F0220-34 [ICS,7]; C08F0220-00 [ICS,7,C*]; C08F0226-12 [ICS,7]; C08F0226-00 [ICS,7,C*]; C08F0293-00 [ICS,7]; C08G0081-00 [ICS,7]; C08G0085-00 [ICS,7]; C09K0011-06 [ICS,7]; H05B0033-10 [ICS,7]
	IPCR	C08F0212-00 [I,A]; C08F0212-00 [I,C*]; C08F0220-00 [I,C*]; C08F0220-34 [I,A]; C08F0226-00 [I,C*]; C08F0226-12 [I,A]; C08F0293-00 [I,A]; C08F0293-00 [I,C*]; C08G0081-00 [I,A]; C08G0081-00 [I,C*]; C08G0085-00 [I,A]; C08G0085-00 [I,C*]; C09K0011-06 [I,A]; C09K0011-06 [I,C*]; H05B0033-10 [I,A]; H05B0033-10 [I,C*]; H05B0033-14 [I,A]; H05B0033-14 [I,C*]
	FTERM	3K007/AB02; 3K007/AB03; 3K007/AB04; 3K007/AB11;

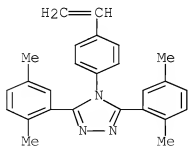
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 4J026/HB11; 4J026/HB19; 4J026/HC47; 4J031/AA49;
 4J031/AB04; 4J031/AC03; 4J031/AD01; 4J031/AD03;
 4J031/AF21; 4J031/AF23; 4J031/BA06; 4J031/BA11;
 4J031/BA15; 4J031/BA17; 4J031/BB01; 4J031/BB02;
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 4J031/BD21; 4J031/BD23; 4J031/CD28; 4J100/AB07P;
 4J100/AB07Q; 4J100/AB07R; 4J100/AB15Q;
 4J100/AB15R; 4J100/AL08P; 4J100/AL08Q;
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 4J100/BC65P; 4J100/BC73Q; 4J100/BC73R;
 4J100/BC75Q; 4J100/BC75R; 4J100/BC79Q;
 4J100/CA04; 4J100/CA05; 4J100/DA55; 4J100/DA61;
 4J100/JA32; 4J100/JA43

- AB The invention relates to an org. electroluminescent device comprising a light-emitting layer contg. a phosphorescent dopant and a multifunctioning polymer, wherein, at least, the two of functional mol. units selected from a luminescent host unit, a hole transporting unit, and an electron transporting unit constitute the multifunctioning polymer.
- ST org electroluminescent device phosphoresce multifunction polymer
- IT Electroluminescent devices
 Light sources
 Optical imaging devices
 Phosphorescent substances
 (org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)
- IT Polyesters, uses
 Polyethers, uses
 Polyurethanes, uses
 (org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)
- IT 714976-00-8 714976-02-0 714976-05-3 714976-08-6 714976-11-1
 714976-13-3 714976-16-6 714976-18-8 714976-21-3 714976-25-7
 714976-27-9 714976-29-1 714976-31-5 714976-33-7
 714976-35-9 714976-36-0 714976-38-2
 (org. electroluminescent device having phosphorescent dopant and multifunctioning polymer in light emitting layer)
- IT 94928-86-6 344796-22-1 376367-93-0
 (org. electroluminescent device having phosphorescent dopant and

multifunctioning polymer in light emitting layer)
 IT 714976-33-7 714976-36-0
 (org. electroluminescent device having phosphorescent dopant and
 multifunctioning polymer in light emitting layer)
 RN 714976-33-7 ZCA
 CN 9H-Carbazole, 3-[4-[bis(2,4,6-trimethylphenyl)boryl]-2,3,5,6-
 tetramethylphenyl]-9-ethenyl-, polymer with 3,5-bis(2,5-
 dimethylphenyl)-4-(4-ethenylphenyl)-4H-1,2,4-triazole (9CI) (CA
 INDEX NAME)
 CM 1
 CRN 714976-32-6
 CMF C42 H44 B N



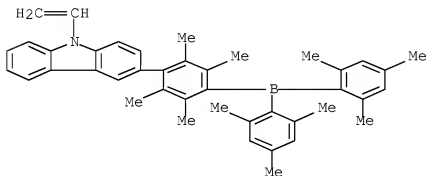
CM 2
 CRN 714976-14-4
 CMF C26 H25 N3



RN 714976-36-0 ZCA
 CN Benzenamine, 4,4'-[[4-[(4-ethenylphenyl)phenylamino]-2,5-dimethylphenyl]methylene]bis[2,5-dimethyl-N,N-diphenyl-, polymer with 3,5-bis(2,5-dimethylphenyl)-4-(4-ethenylphenyl)-4H-1,2,4-triazole and 3-[4-[bis(2,4,6-trimethylphenyl)boryl]-2,3,5,6-tetramethylphenyl]-9-ethenyl-9H-carbazole (9CI) (CA INDEX NAME)

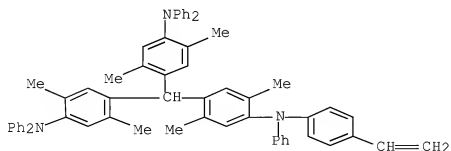
CM 1

CRN 714976-32-6
 CMF C42 H44 B N



CM 2

CRN 714976-20-2
 CMF C63 H57 N3



CM 3

CRN 714976-14-4

CMF C26 H25 N3

